



Assignment no 03

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Subject: Mobile Applications and Development

Code :

```
import React, { useState } from 'react';
import { NavigationContainer } from '@react-navigation/native';
import { createStackNavigator } from '@react-navigation/stack';
import {
  View,
  Text,
  TextInput,
  TouchableOpacity,
  Image,
  ScrollView,
  StyleSheet,
  Alert,
} from 'react-native';

// Stack Navigator
const Stack = createStackNavigator();

const App = () => {
  return (
    <NavigationContainer>
      <Stack.Navigator initialRouteName="Signup" screenOptions={{ headerShown:
false }}>
        <Stack.Screen name="Signup" component={SignupScreen} />
      </Stack.Navigator>
    </NavigationContainer>
  );
};
```

```
    <Stack.Screen name="Login" component={LoginScreen} />
    <Stack.Screen name="Profile" component={ProfileScreen} />
  </Stack.Navigator>
</NavigationContainer>
);
};
```

// Signup Screen

```
const SignupScreen = ({ navigation }) => {
  const [email, setEmail] = useState("");
  const [username, setUsername] = useState("");
  const [password, setPassword] = useState("");
  const [phone, setPhone] = useState("");

  const validateSignup = () => {
    const emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
    const usernameRegex = /^[a-zA-Z]+$/;
    const phoneRegex = /^\+92-3\d{2}-\d{7}$/;

    if (!emailRegex.test(email)) {
      Alert.alert('Invalid Email', 'Please enter a valid email address.');
```

return;

```
    }
    if (!usernameRegex.test(username)) {
```

```
Alert.alert('Invalid Username', 'Username should contain alphabets only.');
```

```
return;
```

```
}
```

```
if (password.length < 6) {
```

```
Alert.alert('Invalid Password', 'Password must be at least 6 characters long.');
```

```
return;
```

```
}
```

```
if (!phoneRegex.test(phone)) {
```

```
Alert.alert('Invalid Phone', 'Phone number must match +92-3xx-xxxxxxx
```

```
format.');
```

```
return;
```

```
}
```

```
Alert.alert('Signup Successful', 'You can now log in.');
```

```
navigation.navigate('Login');
```

```
};
```

```
return (
```

```
<View style={styles.container}>
```

```
<Text style={styles.title}>Create an Account</Text>
```

```
<TextInput
```

```
placeholder="Email"
```

```
style={styles.input}
```

```
value={email}
```

```
onChangeText={setEmail}
```

```
        placeholderTextColor="#aaa"
    />
    <TextInput
        placeholder="Username"
        style={styles.input}
        value={username}
        onChangeText={setUsername}
        placeholderTextColor="#aaa"
    />
    <TextInput
        placeholder="Password"
        secureTextEntry
        style={styles.input}
        value={password}
        onChangeText={setPassword}
        placeholderTextColor="#aaa"
    />
    <TextInput
        placeholder="Phone (+92-3xx-xxxxxxx)"
        style={styles.input}
        value={phone}
        onChangeText={setPhone}
        placeholderTextColor="#aaa"
    />
```

```
    <TouchableOpacity style={styles.button} onPress={validateSignup}>
      <Text style={styles.buttonText}>Sign Up</Text>
    </TouchableOpacity>
  </View>
);
};
```

// Login Screen

```
const LoginScreen = ({ navigation }) => {
  const [email, setEmail] = useState("");
  const [password, setPassword] = useState("");

  const validateLogin = () => {
    if (email === "" || password === "") {
      Alert.alert('Error', 'Please fill in all fields.');
```

return;

```
    }

    Alert.alert('Login Successful', 'Welcome back!');
    navigation.navigate('Profile');
  };

  return (
    <View style={styles.container}>
```

```
<Text style={styles.title}>Welcome Back</Text>
<TextInput
  placeholder="Email"
  style={styles.input}
  value={email}
  onChangeText={setEmail}
  placeholderTextColor="#aaa"
/>
<TextInput
  placeholder="Password"
  secureTextEntry
  style={styles.input}
  value={password}
  onChangeText={setPassword}
  placeholderTextColor="#aaa"
/>
<TouchableOpacity style={styles.button} onPress={validateLogin}>
  <Text style={styles.buttonText}>Log In</Text>
</TouchableOpacity>
</View>
);
};

// Profile Screen
```

```
const ProfileScreen = () => {
  return (
    <ScrollView style={styles.container}>
      <Text style={styles.title}>My Profile</Text>
      <View style={styles.profileCard}>
        <Image
          style={styles.profileImage}
          source={{
            uri: 'https://tse2.mm.bing.net/th?id=OIP.CEZFxwH1ytVYI-
gGd6fYwgHaE8&pid=Api&P=0&h=220',
          }}
        />
        <Text style={styles.profileName}>Afifa Qureshi</Text>
        <Text style={styles.profileStat}>Total Products Sold: 14,8500</Text>
        <Text style={styles.profileStat}>Earnings: $30 billion+</Text>
      </View>
      <View>
        <Text style={styles.sectionTitle}>Recent Orders</Text>
        <OrderItem
          imageUri="https://tse1.mm.bing.net/th?id=OIP.bB07cFwoB_0JgYw8V2t6Xw
HaEo&pid=Api&P=0&h=220"
          description="Burger with Fries"
          date="21st Nov, 2024"
          price="$20.50"
        />
      </View>
    </ScrollView>
  )
}
```



```
<OrderItem
  imageUri="https://tse4.mm.bing.net/th?id=OIP.XF_Aglmac72jmhgoylNwYQ
HaE8&pid=Api&P=0&h=220"
  description="Pizza and Coke"
  date="18th Nov, 2024"
  price="$15.75"
/>
</View>
</ScrollView>
);
};
```

// Order Item Component

```
const OrderItem = ({ imageUri, description, date, price }) => (
  <View style={styles.orderItem}>
    <Image source={{ uri: imageUri }} style={styles.orderImage} />
    <View>
      <Text style={styles.orderDescription}>{description}</Text>
      <Text style={styles.orderDate}>{date}</Text>
    </View>
    <Text style={styles.orderPrice}>{price}</Text>
  </View>
);
```

// Styles

```
const styles = StyleSheet.create({
  container: {
    flex: 1,
    backgroundColor: '#1e3a47',
    padding: 20,
  },
  title: {
    fontSize: 24,
    color: 'fff',
    marginBottom: 20,
    textAlign: 'center',
  },
  input: {
    backgroundColor: '#2b4d5f',
    borderRadius: 8,
    padding: 12,
    color: 'fff',
    marginBottom: 15,
  },
  button: {
    backgroundColor: '#4db6ac',
    borderRadius: 8,
    paddingVertical: 12,
    marginBottom: 15,
  },
});
```

```
},
buttonText: {
  color: '#fff',
  textAlign: 'center',
  fontSize: 16,
},
profileCard: {
  backgroundColor: '#2b4d5f',
  padding: 20,
  borderRadius: 8,
  alignItems: 'center',
  marginBottom: 20,
},
profileImage: {
  width: 80,
  height: 80,
  borderRadius: 40,
  marginBottom: 10,
},
profileName: {
  fontSize: 18,
  color: '#fff',
  marginBottom: 10,
},
```

```
profileStat: {
  fontSize: 14,
  color: '#b2ebf2',
},
sectionTitle: {
  fontSize: 20,
  color: '#fff',
  marginBottom: 10,
},
orderItem: {
  flexDirection: 'row',
  alignItems: 'center',
  backgroundColor: '#2b4d5f',
  padding: 10,
  borderRadius: 8,
  marginBottom: 10,
},
orderImage: {
  width: 50,
  height: 50,
  borderRadius: 8,
  marginRight: 10,
},
orderDescription: {
```

```
    color: '#fff',
    fontSize: 16,
    marginBottom: 5,
  },
  orderDate: {
    color: '#b2ebf2',
    fontSize: 14,
  },
  orderPrice: {
    color: '#4db6ac',
    fontSize: 16,
    marginLeft: 'auto',
  },
});
```

```
export default App;
```

OUTPUT:

Create an Account

Email

Username

Password

Phone (+92-3xx-xxxxxxx)

Sign Up

Welcome Back

Log In

My Profile



Afifa Qureshi

Total Products Sold: 14,8500
Earnings: \$30 billion+

Recent Orders



Burger with Fries

21st Nov, 2024

\$20.50



Pizza and Coke

18th Nov, 2024

\$15.75